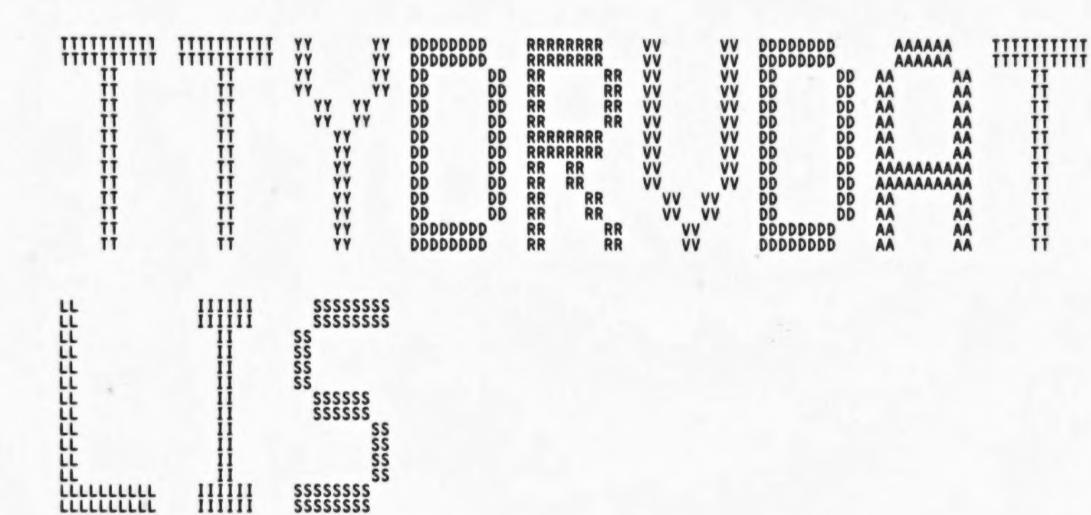
		DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	RRRRRRRRRR RRRRRRRRRR RRRRRRRRRRRR	R	VVV VVV	VVV VVV	RRRRR	RRRRRRR RRRRRRR RRRRRRR
111	111 111	DDD	RRR RRR RRR	RRR RRR	VVV VVV VVV	VVV VVV	RRR RRR RRR	RRR RRR RRR
111 111 111	111 111 111 111	DDD	RRR RRR RRR	RRR RRR	VVV VVV	VVV VVV	RRR RRR RRR	RRR RRR RRR
†††	††† †††	DDD DDD DDD DDD DDD	RRRRRRRRRR RRRRRRRRRR RRRRRRRRRR RRR RRR	R	VVV VVV VVV	VVV VVV VVV	RRRRR	RRRRRRR RRRRRRR RRRRRRR RRR
111 111 111	TTT TTT TTT	DDD DDD DDD DDD	RRR RRR RRR RRR RRR RR	R	VVV VVV	VVV	RRR RRR RRR	RRR RRR RRR
111	111	DDD DDD DDD DDD DDD DDD DDD DDD DDD DD	RRR RR RRR RR	RRR	VVV		RRR RRR RRR	RRR RRR RRR
111	111		RRR RRR	RRR	VV		RRR	RRR RRR



VO

• • • •

....

TTYDRVDAT Table of contents	- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00
(2) 138 (3) 154 (4) 184 (6) 241 (7) 263 (8) 320 (10) 590 (11) 608 (14) 689 (21) 830 (22) 840 (23) 871 (24) 964 (25) 1076 (26) 1123 (26) 1250	Declarations autobaud tables CHARACTER DISPATCH TABLE - MACROS CHARACTER TYPE TABLE CHARACTER TYPE TABLE MACRO CHARACTER TYPE TABLE ESCAPE SEQUENCE TO TOKEN TRANSLATION TABLE ESCAPE SYNTAX TABLE FALLBACK - table that will create fallback presentation TERMINATOR BITMASK FOR STANDARD SET WORD TERMINATOR BIT MASK MACRO AND TABLE VERIFY ARRAY - Array of definitions for Read verifictaion SPECIAC STRINGS TERMINAL CLASS DRIVER PROLOGUE TABLE DRIVER DISPATCH TABLE AND FUNCTION DECISION TABLE

Page 0

V04

.TITLE TTYDRVDAT - Terminal driver data base module .IDENT 'V04-001'

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FACILITY:

VAX/VMS TERMINAL DRIVER

ABSTRACT:

TERMINAL DRIVER DATA BASE

AUTHOR:

R. HEINEN 14-JUN-1977

Enhancement Revision history:

V04-001 MIR1100 Michael I. Rosenblum 7-Sep-1984
The multinational set in the Type table did not conform to that specified in the VT200 series terminals.
This was fixed.

V03-022 LMP0275

Initialize the ACL info in the ORB to be a null descriptor list rather than an empty queue. This avoids the overhead of locking and unlocking the ACL mutex, only to find out that the ACL was empty.

V03-021 MIR0450 Michael I. Rosenblum 27-Jun-1984 Make the read verify array correspond with that in FMS and TDMS as far as multinational is concerned.

(1)

21-Mar-1983

09-Mar-1983

- Terminal driver data

TTYDRVDAT

V03-009 MIR0029

V03-008 MIR4026

V03-007 MIR0026

on unusual terminators.

base modu	16-SEP-1984 02:16:16 VAX/VMS Macro VO4 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDR	-00 Page
v03-020	EMD0098 Ellen M. Dusseault 14-May-1 Add dev\$m_nnm characteristic to DEVCHAR2 so that devices will have the 'node\$' prefix.	984 these
v03-019	LMP0221 L. Mark Pilant, 7-Apr-19 Change UCB\$L_OWNUIC to ORB\$L_OWNER and UCB\$W_VPRORB\$W_PROT.	284 13:38 ROT to
v03-018	RKS0018 RICK SPITZ Do not set template bit it VTAO UCB to prevent assign from creating new UCBs when it is referen	05-MAR-1984
v03-017	MIR0310 Michael I. Rosenblum Put a turn off attributes sequence in the DECcrt To allow terminals that don't correctly handle S Restore to be able to use the new strings.	09-Feb-1984 commands ave and
v03-016	MIR0300 Michael I. Rosenblum add input fallback table to tables remove recall key.	30-Jan-1984
v03-015	MIR0080 Michael I. Rosenblum Restructure module and add 8bit support to read table.	15-Jul-1983 verify
v03-014	MIR0051 Michael I. Rosenblum Change defalut lk201 key definitions. Make fallback table smaller and remove the multi-expansions. Move fallback table into terminal detables.	23-Jun-1983 character driver generic
v03-013	RKS0013 RICK SPITZ Add support for detached terminal template UCB	4-JUN-1983
v03-012	JLV0256 Jake VanNoy Add extra pointers to allow table-driven multied	23-MAY-1983
v03-011	MIRO049 Michael I. Rosenblum Add fallback presentation table macro.	06-May-1983
v03-010	MIR0030 Michael I. Rosenblum Add Verification array for read verification. bit support and common escape escape sequence op tables. Also change messages for the echoing co to reflect the new lk201 definitions, add dec cr and regis messages. Put in alternate echo strin	ntrol characters t messages

Michael I. Rosenblum Add code to handle overstrike mode and non-termination

MIR4026 Michael I. Rosenblum 09-Ma Remove character input restriction from the TAB key.

MIR0026 Michael I. Rosenblum 15-Feb-1983 Add data to handle the new type of reads. This includes

Terminal	driver d	ata base modu	D 13 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2	3 (1)
0000	115 :		enhancements to the input character dispatcher.	
0000	117	v03-006	MIRO017 Michael I. Rosenblum 05-Jan-1983 Add CLASS_POWERFAIL entry point.	
0000	120	v03-005	MIRO015 Michael I. Rosenblum 20-Dec-1982 Add CLASS_FORK and CLASS_DISCONNECT class entry points.	
0000	123	v03-004	MIRO013 Michael I. Rosenblum 16-Dec-1982 Fix up refferences to new ucb structure	
0000 0000 0000 0000 0000	126 127 128 129 130	v03-003	MIRO011 Michael I. Rosenblum 18-Nov-1982 Change all strings to be counted strings. Remove all strings for holdscreen. Add TTY\$A_ANSI_DEOL which contains the ANSI escape sequence that will go to the beginning of the line and clear to the end of the line.	
0000 0000 0000 0000	133 134 135 136 :	v03-002	KDM0002 Kathleen D. Morse 28-Jun-1982 Added \$DYNDEF.	

VO

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SA

```
- Terminal driver data base module autobaud tables
                                                                                                                                                                                       VAX/VMS Macro V04-00
[TTDRVR.SRC]TTYDRVDAT.MAR; 2
                                                                               .sbttl autobaud tables
                                                         TTY$AB_9600::
                                                                                                                                                                     ; Table for samples taken at 9600
10 7F
10 7A
10 72
10 7E
0F 0D
0D 66
0C 0C
0B 78
09 70
08 00
FF FF
                                                                                                   *X7F, TT$C BAUD 19200

*X7A, TT$C BAUD 19200

*X72, TT$C BAUD 19200

*X7E, TT$C BAUD 19200

*X0D, TT$C BAUD 9600

*X66, TT$C BAUD 4800

*X0C, TT$C BAUD 3600

*X78, TT$C BAUD 1800

*X70, TT$C BAUD 1800

*X70, TT$C BAUD 1200

-1, -1
                                                                               : End of list
: Patch space
                                                         TTY$AB_600::
                                                                                                                                                                     ; Table for samples taken at 600
                                                                               *X7E, TT$C_BAUD_1200

*X72, TT$C_BAUD_1200

*X0D, TT$C_BAUD_600

*X66, TT$C_BAUD_300

*X78, TT$C_BAUD_150

*X60, TT$C_BAUD_110

*X70, TT$C_BAUD_110
        08
07
06
05
03
FF
                7E720066786070FF
                                                                                                                                                                     : End of list
; Patch space
 00000046
```

TTYDRVDAT

```
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page CHARACTER DISPATCH TABLE - MACROS 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (0046 185 ++ 0046 186 SDISINI 0046 187 O046 188 DESCRIPTION: 0046 189 SETS UP A 256 BYTE TABLE TO ALLOW A QUICK DISPATCH ON INPUT CHARACTERS 0046 191 INPUTS: 0046 192 NONE 0046 193 -- 0046 194 O046 195 O046 196 SSS=. 0046 197 REPEAT 32 O046 198 BYTE TTYSK_ET_UNUSED 0046 199 ENDR 0046 199 ENDR 0046 200 BLKB 256-32 O046 201 SSSS=. ENDM SDISINI
```

VO

(5)

TTYDRVDAT

```
- Terminal driver data base module
CHARACTER DISPATCH TABLE - MACROS
                                                                      16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2
                           ***
*DIS
                              DESCRIPTION:

GIVEN A LIST OF CHARACTERS WILL FILL EACH OF THEIR BYTES WITH THE CHARACTER DISPATCH TOKEN THAT THIS CHARACTER TRANSLATES TO.
                              INPUTS:
                                         CHARLIST = A LIST OF CHARACTERS TO FILL WITH THIS TOKEN TOKEN = THE TOKEN CHARACTER. ONE OF THE FOLLOWING:

CONTROL-U
CONTROL-R
                                                                                 ESCAPE CHARACTER
BACKWARD 1 CHAR
FORWARD 1 CHAR
END OF LINE
BEGINNING OF LINE
DELETE WORD LEFT
                    MACRO SDIS
                                                                    CHARLIST, TOKEN
                                         CHAR, CHARLIST
                           .IRP
                                         .BYTE TOKEN
                           .ENDR
                                         .ENDM SDIS
                           SDISEND
                              DESCRIPTIONS
                                         PUTS THE END ON THE CHARACTER DISPATCH TABLE
                                         .MACRO $DISEND
                                         .=$$$$
```

.ENDM

\$DISEND

TTYDRVDAT

V04-001

```
- Terminal driver data base module CHARACTER TYPE TABLE MACRO
                                                                  16-SEP-1984 02:16:16
7-SEP-1984 17:56:59
                                                                                                     VAX/VMS Macro V04-00
[TTDRVR.SRC]TTYDRVDAT.MAR; 2
                                       .SBTTL CHARACTER TYPE TABLE MACRO
                            TYPE - TYPE TABLE MACRO GENERATOR
                            Description:
                            The type table is used by the character output routines to determine several things, whether the character is a spaceing or non spaceing character, If this character needs specail attention pre or post typeahead, and if this character is lower case.
                   The table is a table of bytes. The lower nibble is a count of the occurance of this type of entry, and the high order nibbel is a set
                            of flags.
                            Inputs:
                                      Type - one of SPEC, CONTROL, CTRL2, CTRL3, LOWER
                                       MACRO TYPE
                                                                TYP
                                      Y=0
. IF
                                                                TYP
                                       Y=XY'TYP
                                      XY'TYP=1+XY'TYP
                                                                CONTROL TYP
                                      Y=Y!<TTY$M_CH_CTRL>
                                       . ENDC
                                                   IDN
                                                                SPEC.TYP
                                      Y=Y!<TTY$M_CH_SPEC>
                                       .ENDC
```

CTRL2, TYP

LOWER, TYP

CHAR-97 CHAR-97-25

IDN

Y=Y!<TTY\$M\_CH\_CTRL2>

IDN

Y=<TTY\$M\_CH\_LOWER>

Y=<TTYSM\_CH\_LOWER>

Y=<TTY\$M\_CH\_CTRL3>
.ENDC

.ENDC

.ENDC . IF

.ENDC .ENDC .IF

. ENDC .ENDC BYTE

ENDM

CHAR=CHAR+1

VO

INITIALIZE COUNTS CHAR=0 XYSPEC=0 XYCONTROL=0 XYCTRL2=0 XYCTRL3=0

XYLOWER=0

0146	320 .SBTTL	CHARACTER TYPE TABLE		
0146 01478 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01484 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 01684 0	**************************************	CTRL3 CONTROL CTRL3	NULL CONTROL A CONTROL C CONTROL C CONTROL E CONTROL F BELL CONTROL G BACKSPACE TAB LINE FEED VERTICLE TAB FORM CONTROL N CONTROL N CONTROL O CONTROL P CONTROL C CONTROL T CONTROL V CONTROL V CONTROL V CONTROL V CONTROL Y CONTROL Z ESCAPE  SPACE  (1) 1 2 3 4 5 5	

TT VO

TTYDRVDAT V04-001	- Terminal driver data base module CHARACTER TYPE TABLE	16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 11 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (8
	017C 377 TYPE 17PE 17PE 17PE 17PE 17PE 17PE 17PE 17	6789:<  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789  789.

- Terminal d	river PE TAB	data	base mod	M 13	16-SEP-1984 7-SEP-1984	02:1 17:5	6:16 6:59	VAX/VMS Macro VO [TTDRVR.SRC]TTYD	4-00 RVDAT.MAR;2	Page	12 (8)
0185 0186 0187 0188 0189 0180 0180 0180 0181 0181 0181	43567 43567 4378 4379 44444 4444 4444 4444 4444 4444 444		TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	CTRL2			UP L	R G R R R S R T R U R V R W R X R Y R Z LY LEFT INE			
01 C 5 01 C 6 01 C 6 01 C 6 01 C 6	455 :	B BIT	CHARACT	TERS							
01C6 01C7 01C8 01C9 01CD 01CD 01CD 01CD 01CD 01CD 01CD 01CD	444444444444444444444444444444444444444		TYPEE	CTRL333333333333333333333333333333333333			RESERVED 23S12SH AASSEE C COPPERENT C C COPPERENT C C C C C C C C C C C C C C C C C C C	RVED RVED RVED RVED RVED RVED RVED RVED			

VO

VAX/VMS Macro V04-00 ETTDRVR.SRCJTTYDRVDAT.MAR; 2 CENT RESERVED YEN RESERVED SECTION CURRENCY COPYRIGHT FEMINANE ORDINAL LEFT ANGLE QUOTE RESERVED RESERVED RESERVED

RESERVED DEGREE PLUS/MINUS

SUPER 2 SUPER 3 RESERVED

MICRO PARAGRAPH MIDDLE DOT RESERVED SUPER 1

MASCULINE ORDINAL ALGLE QUOTE RIGHT

RESERVED INVERTED ?

CAP A GRAVE
CAP A ACUTE
CAP A CERC
CAP A TILDE
CAP A DIAERESSIS OR UMLAUT
CAP A WITH RING

AE DIPTHONG
C CEDILLA
CAP E GRAVE
CAP E ACUTE
CAP E CERC
CAP E DIAERESSIS OR UMLAUT

GRAVE

ACCUTE UMLAUT RESERVED

N TILDE CAP O GRAVE CAP O ACUTE CAP O CERC CAP O TILDE

CAP O DIAERESSIS OR UMLAUT

OE O WITH SLASH U GRAVE ACCUTE

TYPE TYPE

- Terminal drive CHARACTER TYPE T	r data base modul	16-SEP-1984 7-SEP-1984	02:16:16 VAX/VMS Macro VO4-00 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2
0221 548 0222 549 0223 550 0224 551 0225 552	TYPE TYPE TYPE TYPE TYPE		U CIRC U UMLAUT Y WITH DIAERESIS OR UMLAUT RESREVED SMALL SHARP S
0226 554		BIT CHARACTERS	
0221 02223 02224 02225 02226 02226 02226 02226 02227 02228 02228 02229 02228 02228 02228 02228 02228 02228 02228 02228 02231 02231 02231 02334 02334 02334 02337 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02338 02348 02443 02443 02445	TYPE TYPE TYPE TYPE TYPE TYPE TYPE TYPE	WERRING WERRIN	LOWER A ACUTE LOWER A CERC LOWER A TILDE LOWER A DIAERESSIS OR UMLAUT LOWER A WITH RING AE DIPTHONG C CEDILLA GRAVE E ACCUTE CIRC UMLAUT I GRAVE I ACCUTE I CIRC I UMLAUT RESERVED N TILDE LOWER O GRAVE LOWER O CERC LOWER O TILDE LOWER O DIAERESSIS OR UMLAUT OE O WITH SLASH U GRAVE U ACCUTE U CIRC U UMLAUT Y WITH DIAERESIS OR UMLAUT RESREVED RESERVED

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```
- Terminal driver data base module CHARACTER TYPE TABLE
                                                          16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 15 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (10)
                                   .SBTTL ESCAPE SEQUENCE TO TOKEN TRANSLATION TABLE
```

V04

```
interrupt_key::
    .XSCII <TTY$C_ESCAPE>/[17~/
interrupt_key_len==.-interrupt_key
7E 37 31 5B 1B 00000005
                                                                                    : OS interupt key
       0000025D
0D
0D
0D
00
00
0D
08
09
                                                                                       0 - 18 AREN'T DEFINED
                                                                                          EXIT KEY IS UNDEFINED
        0000001B
```

```
16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Pa
7-SEP-1984 17:56:59 [ITDRVR.SRC]TTYDRVDAT.MAR;2
TTYDRVDAT
                                    - Terminal driver data base module
V04-001
                                    ESCAPE SYNTAX TABLE
                                                               .SBTTL ESCAPE SYNTAX TABLE
                                                        ESCAPE SYNTAX TABLE
                                                       TTY$A_ESCAPE::
                                                                                                    : ESCAPE SYNTAX TABLE
                                                        ESCAPE SEQUENCE <ESC><;><32:47>....<48:126>
                                  3B 3B OF .
                                                             .ASCII /::/
.BYTE 10$-TTY$A_ESCAPE
                                                        ESCAPE SEQUENCE <ESC><?><32:47>....<48:126>
                                  3F 3F OF .
                                                                .ASCII /??/
                                                               .BYTE 108-TTYSA_ESCAPE
                                                        ESCAPE SEQUENCE <ESC><0><32:47>....<64:126>
                                                               .ASCII /00/
                                                          BYTE 208-TTYSA_ESCAPE
                                                        ESCAPE SEQUENCE < ESC> < Y> < 32:126> < 32:126>
                                 59 59
1E'
                                                               .ASCII /YY/
.BYTE 308-TTYSA_ESCAPE
                                                        ANSI CONTROL SEQUENCES <ESC><[><48:63>...<32:47>...<64:126>
                                                               .ASCII /[[/
.BYTE 158-TTY$A_ESCAPE
                                                        ESCAPE SEQUENCE < ESC> < 32:47>.... < 48:126>
                                                      0000000F
2F 20
0F
                                                                                                   SPACE TO '''
INTERMEDIATE CHARACTER
'O' TO END
FINAL
CSI PREFEXES THE FOLLOWING
'O' TO '?'
                              7E 30
000
00000015
3F 30
                                                                .BYTE
                                                      TTYSK_CSI==.-TTYSA_ESCAPE

158: ASCII /07/
BYTE 158-TTYSA_ESCAPE
                                                      00000018
                                                                                                    ; SPACE TO "/"
                                                                                                    : "" TO END
END OF ESC O.
SPACE TO END
                                  7E
                                                                .BYTE
                                                  655 308:
                                                                .ASCII
                                                                         ! !<126>
                                                                       408-TTYSA_ESCAPE
                                                                .BYTE
                                                               .ASCII
                                                                        ! !<126>
                                                                .BYTE
```

: ESCAPE SEQUENCES WITH MEANING FOR OUTPUT

TTYSA\_ESC\_OUT::

THERE IS A CORRELATION BETWEEN THIS TABLE AND CODE!

2A

50

OD

4F

V04

TTYDRVDAT - Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 V04-001 ESCAPE SYNTAX TABLE 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;

5A 4B 47 46 59 49 48 44 43 42 41 00' 028A 665 .ASCIC /ABCDHIYFGKZ>=\[/ ;

74

TT1

6E

61

75

70

74

**6E** 

TT'

11

02BA 678 : ESCAPE SEQUENCE RULE INITIALIZATION TABLE
02BA 680 | O2BA 681 | O2BA 682 | O2BA 683 | O2BA 684 | O2BA 684 | O2BA 684 | O2BA 685 | O2BA 686 | O2BA 686 | O2BA 687 | O2

```
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 20 FALLBACK - table that will create fallba 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (14)
```

```
.SBTTL FALLBACK - table that will create fallback presentation
                                        FALLBACK - TABLE TO ALLOW THE TERMINAL TO DO FALLBACK PRESENTATION OF BBIT CHARACTERS on 7 bit terminals
                                                                         Description:
The following macros generate 3 tables. The first is a 256 byte table with the single character fallback representation of all the
                                                                        characters that can be represented by a single character, those with no fallback presentation at all are represented by the __character, those with multiple character representation have a 0 in there position. The second table is a list of counted strings containing the characters for all the characters that have multiple character fallback representation. The third table is a 96 byte table that contains the offsets into the second table of the counted string for the given character. The base of the third table is the first 8 bit printing character
020AA 020AAA
                                                                                                                .macro Sfallini
                                                                85=0
                                                               .repeat 256
.If LE $8-<^x9F>
                                                                                                                                                                                                                     EVERYTHING BUT THE MULTINATIONAL SET SHOULD
                                                                                                                                                                                                           : ECHO AS ITSELF.
                                                                                                                .byte $$
                                                                . IFF
                                                                                                               .BYTE "A/_/
                                                                     ENDC
                                                               $5=$$+1
                                                                 .endr
                                                               $$$=.
                                                                . SAVE
                                                                                                              .PSECT $$$115_TTDRVR_EXPTAB
                                                               EXPTAB:
                                                                .REPEAT
                                                                                                               .BYTE
                                        724
725
726
727
728
729
730
                                                                    ENDR
                                                               TT_END=.
                                                                                                              .PSECT $$$115_TTDRVR_EXPAN
                                                               EXPAN:
                                                                .RESTORE
                                                                                                               .endm
                                                                                                                                                          Sfallini
```

A04

VO

```
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 21 FALLBACK - table that will create fallba 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTVDRVDAT.MAR;2 (15)
```

```
CHARH - COLUMN IN THE ASCII TABLE.
CHARL - ROW IN THE ASCII TABLE.
FALLBACK - String that is the fallback representation
COUNT - Number of times to repeat this character
.MACRO SFALL CHARH, CHARL, FALLBACK, COUNT=1
               .=FALLTAB+<CHARH+16>+CHARL
              REPEAT COUNT
                         SLEN-1 SLEN-1
              . NCHR
              . IF EQ
                         BYTE
                                   *A/FALLBACK/
              . IFF
                         .BYTE
                                   255
         750
751
752
753
754
755
756
757
758
759
760
              . SAVE
              .PSECT $$$115_TTDRVR_EXPAN
              .ASCIC !FALLBACK!
.PSECT $$$115 TTDRVR_EXPTAB
.=EXPTAB+<CHARH+16>+CHARL-150
                         .BYTE
                                   SSEXP
              .RESTORE
              .ENDC
                         . ENDM
                                   SFALL
```

J 14
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 22
FALLBACK - table that will create fallba 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTVDRVDAT.MAR;2 (16)

Description: Resets the . to the end of the fallback table Inputs: None .MACRO SFALLEND .ENDM SFALLEND

TT

- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 23 FALLBACK - table that will create fallba 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (18)

```
FALLTAB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SFALLINI
SFALL
SFALL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10.1.!

10.2.c

10.3.L

10.5.Y

10.7.Sc

10.8.0

10.9.(C)

10.10.0

10.11.^!<<!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SFALL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
SFALL
038BC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11 .2 .2

11 .3 .3

11 .5 .0

11 .6 .Pr

11 .7 .1

11 .10 .0 ...

11 .13 .<1/2>

11 .13 .<1/2>

11 .15 .?

12 .0 .A .6

12 .7 . C

12 .8 .E .4

12 .1 .4

13 .1 .N

13 .2 .0 .5

13 .8 .0

13 .1 .5 .5 .5

14 .0 .8 .6

15 .5 .5 .5

14 .0 .8 .6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14.8.e.4
14.12.1.4
15.1.n
15.2.0.5
15.7.0e
15.8.0
15.8.0
```

- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 24 FALLBACK - table that will create fallba 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTVDRVDAT.MAR;2 (20) 03DA 828

Sy

- Terminal driver data base module TERMINATOR BITMASK FOR STANDARD SET TTYDRVDAT V04-001 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 25 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (21) .SBTTL TERMINATOR BITMASK FOR STANDARD SET 03DA 03DA 03DA 03DE 03EA 03EE TTYSA\_STANDARD:: 80000000 00000000 FFFFE0FF 80000000 00000000 00000000 ^X0FFFFE0FF 0.0.^X80000000 ^X0FFFFE0FF 0.0.^X80000000 LONG BS, TAB, LF, VT, FORM NOT TERMS AND DELETE . LONG

Sy

00000000

00000000

```
- Terminal driver data base module 16-SEP-1984 02:16:16 WORD TERMINATOR BIT MASK MACRO AND TABLE 7-SEP-1984 17:56:59
                                                                                VAX/VMS Macro V04-00
[TTDRVR.SRC]TTYDRVDAT.MAR; 2
                                  .SBTTL WORD TERMINATOR BIT MASK MACRO AND TABLE
                           This is the default word terminator bitmask, this table is used
                           by the delete word routine to determine when a word ends.
                         TTYSA_WORDTERM::
                                           FFFFFFF
                                   . LONG
FCOOFBDF
                                   . LONG
38000001
                                  . LONG
B8000001
                                   . LONG
           040A
040A
040E
0412
041A
041A
041A
041A
041A
041A
042A
042A
042B
0436
                         ; duplicate for the eight bit set
                                            . LONG
FFFFFFFF
FCOOFFFF
                                   .LONG
38000001
                                  . LONG
B8000001
                                  .LONG
                           There are certain characters which are to be considered words on there
                           own (characters like the = which are delimeters) this table contains
                           the bits for those characters.
                    860
861
862
863
                        TTYSA_PREFIX::
                                           0

B000100000000000010000100001000;

B00001000000000000000000000001; THE UPPER CASE LETTERS AREN'T TE

B0000100000000000000000000000; THE LOWER CASE LETTERS AREN'T EI
00000000
                                  . LONG
10008208
08000001
08000000
                                   . LONG
                                  . LONG
                    864
865
866
867
868
869
                                   .LONG
                        ; duplicate for the eight bit set
00000000
                                   . LONG
                                                                        : ALL THE CONTROL CHARACTERS
00000000
                                   .LONG
```

. LONG

. LONG

Ps

\$5

\$5 \$5

-In Ca Pa Sy

Sy Cr As

Th 12

TO

Th

```
- Terminal driver data base module
                                                               16-SEP-1984 02:16:16
7-SEP-1984 17:56:59
                                                                                             VAX/VMS Macro V04-00

[TTDRVR.SRC]TTYDRVDAT.MAR; 2
                                                                                                                                          (23)
      VERIFY_ARRAY - Array of definitions for
             .SBTTL VERIFY_ARRAY - Array of definitions for Read verifictation
                                       VERIFICATION ARRAY
                            ALPHA_UPPER = 1
ALPHA_LOWER = 2
NUM09 = 4
00000001
00000002
80000008
                            PLUS MINUS = 8
PRINTABLE = 16
00000010
00000020
                            CHAR_ALL = 32
                            VERIFY_ARRAY::
             043A
                                        REPEAT 32
             043A
043A
                                       CHAR_ALL
                             .BYTE
                                        ENDR
                                       CHAR ALL!PRINTABLE!ALPHA_UPPER!ALPHA_LOWER .REPEAT 10
             045A
                             .BYTE
             045B
             045B
045B
                                       CHAR ALL!PRINTABLE .ENDR
                       890
                            .BYTE
       30
38
30
38
30
38
30
                       891
                                       CHAR_ALL!PRINTABLE!PLUS_MINUS
CHAR_ALL!PRINTABLE
CHAR_ALL!PRINTABLE!PLUS_MINUS
CHAR_ALL!PRINTABLE!PLUS_MINUS
CHAR_ALL!PRINTABLE
.REPEAT 10
                       892
893
                            .BYTE
             0465
             0466
                            .BYTE
             0467
                       894
                            .BYTE
                       895
             0468
                            .BYTE
                       896
897
             0469
                            .BYTE
             046A
             046A
                       898
                            .BYTE
                                       CHAR_ALL!PRINTABLE!NUM09
             046A
0474
       34
                       899
                                       .ENDR
                       900
                                         REPEAT 7
             0474
                                       CHAR_ALL!PRINTABLE
                       901
                            .BYTE
                       902
903
904
905
       30
             0474
                                       . ENDR
             047B
                                       REPEAT 26
CHAR_ALL!PRINTABLE!ALPHA_UPPER
                            .BYTE
       31
             047B
                                       .ENDR
                       906
907
908
909
             0495
                                        REPEAT 6
                            BYTE.
             0495
                                       CHAR_ALL!PRINTABLE
       30
             1495
                                       . ENDR
                                        REPEAT 26
             0498
             049B
                       910
                            .BYTE
                                       CHAR_ALL!PRINTABLE!ALPHA_LOWER
       32
             049B
                       911
                                       . ENDR
             0485
                                         REPEAT 4
                            .BYTE
             0485
                                       CHAR_ALL!PRINTABLE
             04B5
04B9
                                        .ENDR
                             BYTE.
                                       CHAR_ALL
             04BA
                                        REPEAT 32
             048A
048A
                                       CHAR_ALL
                             BYTE.
                                        . ENDR
                                       CHAR ALL
             04DA
                       919
                            .BYTE
             04DB
             04DB
                             BYTE.
                                       CHAR_ALL!PRINTABLE
             04DB
                                        ENDR
             04DE
04DF
04E0
04E1
04E1
                                       CHAR_ALL ! PRINTABLE CHAR_ALL !
                             .BYTE
                            .BYTE
                            .BYTE
                                         REPEAT 5
                             .BYTE
                                       CHAR_ALL!PRINTABLE
```

TTYDRVDAT

```
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 VERIFY_ARRAY - Array of definitions for 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2
       04E6
04E6
 30
                 REPEAT 4
                                   CHAR ALL
                       .BYTE
 20
      REPEAT 4
                                   CHAR ALL!PRINTABLE
                       .BYTE
 30
                                   CHAR ALL
                       .BYTE
                                   CHAR ALL!PRINTABLE .ENDR
                       .BYTE
 30
                                   CHAR ALL
                       .BYTE
                       .BYTE
                                   CHAR ALL!PRINTABLE
 30
20
30
                                   CHAR_ALL PRINTABLE .REPEAT 16
                       BYTE.
                       .BYTE
                                   CHAR ALL!PRINTABLE!ALPHA_UPPER .ENDR
 31
20
                                   CHAR ALL . REPEAT 13
                       .BYTE
                 950
951
952
953
                                   CHAR ALL!PRINTABLE!ALPHA_UPPER .ENDR
                       .BYTE
 31
20
30
                                  CHAR_ALL PRINTABLE .REPEAT 16
                       .BYTE
                 954
955
                                   CHAR ALL!PRINTABLE!ALPHA_LOWER .ENDR
                       .BYTE
       051A
052A
052B
052B
052B
053B
0538
                 956
957
958
959
 32
                                  CHAR ALL REPEAT 13
                       .BYTE
                                  CHAR ALL!PRINTABLE!ALPHA_LOWER .ENDR
                       .BYTE
                 960
961 .BYTE
962 .BYTE
 32
20
20
                                  CHAR_ALL
                                  CHAR ALL
```

C 15

```
D 15
TTYDRVDAT
                                         - Terminal driver data base module SPECIAL STRINGS
                                                                                              16-SEP-1984 02:16:16
7-SEP-1984 17:56:59
                                                                                                                          VAX/VMS Macro V04-00
[TIDRVR.SRC]TTYDRVDAT.MAR; 2
                                                                        .SBTTL SPECIAL STRINGS
                                                                MULTI ECHO STRINGS
                                                                 ALL OF THE SPECAIL STRINGS MUST BE COUNTED STRINGS (1 BYTE LENGTH COUNT FOLLOWED BY DATA
                                                                TAB STRINGS
           20 20 20 20 20 20 20 20 00
                                                              TTYSA_TAB::
                                                                                             .ASCIC /
                                                                BACKSPACE STRING
                                                                                                       7.TTYSC_BS.TTYSC_BS.TTYSC_BS.TTYSC_BS.TTYSC_BS.-
TTYSC_BS.TTYSC_BS
3.TTYSC_BS.TTYSC_BLANK.TTYSC_BS
2.TTYSC_BLANK.TTYSC_BS
               08 08 08 08 08 08 08 07
                                                              TYSA_DELCRTTAB::
                                                                                             BYTE
                                  20 08 03 08 20 02
                                                              TTYSA_BACKSPACE::
TTYSA_SPACEBACK::
                                                                                             .BYTE
                                                                                             .BYTE
                                                                UTILITY STRINGS
                                                                THE ORGANIZATION OF THIS TABLE IS CRITICAL
                                                             TTYSA_CTRLU::
                                      OD
                                                                                  .ASCIC <TTYSC_CR>
                                          00
                                                        990 TTYSA_CTRLR::
                                                                                  .ASCIC <TTY$C_CR>
               OD 2A 54 49 58 45 2A
                                                         991 TTYSA_CTRLZ::
                                                                                  .ASCIC /*EXIT*/<TTY$C_CR>
                                                                                            32-<.-TTY$A CTRLZ> <13><10>/*iNTERRUPT*/<13><10>
                                   00000576
                                                        993 TTYSA_CTRLY:
                                  OA OD
OD 2A
50 55 52 52 45 54 4E 49 2A
                                                                                   .ASCIC
OD 2A 4C 45 43 4E 41 43 2A 0A 0D 00°
                                                        994
995 TTYSA_CTRLC:
                                                                                            32-<.-TTY$A_CTRLY>
<13><10>/*CANCEL*/<13><10>
                                                                                   .ASCIC
                                                                                            32-<.-TTY$A CTRLC> <13><10>/*00TPUT OFF*/<13><10>
                                   000005B6
                                                        996
997 TTY$A_CTRLO:
4F 20 54 55 50 54 55 4F 2A OA OD
                                  OA OD OO'
2A 46 46
                                                                                   .ASCIC
                                                                                            32-<.-TTY$A_CTRLO>
/*OUTPUT ON*/<TTY$C_CR>
                                  00000506
4F 2A 00°
2A 4E 4F 20 54 55 50 54 55
                                                             TTYSA_OUTON:
                                                                                   ASCIC
                                                        1000
                                   000005F6
                                                                                   .BLKB
                                                                                             32-<.-TTYSA_OUTON>
                                                        1002
                                                              DEC CRT ECHO STRINGS
                                                        1004
1005
1006
1007
                                                                SAVE THE ATTRIBUTES GO INTO REVERSE VIDEO, PRINT THE MESSAGE THEN
                                                                        RESTORE THE ATTRIBUTES.
                                                        1008
                                                              TTYSA_CTRLZ_DEC::
```

```
TTYDRVDAT
                                                                                                                  YAX/VMS Macro V04-00
[TTDRVR.SRC]TTVDRVDAT.MAR; 2
                                       - Terminal driver data base module
V04-001
                                       SPECIAL STRINGS
74 69 78 45 20 60 37 5B 1B 37
                                                    1009
                                                                    .ASCIC <TTYSC_ESCAPE>/7/<TTYSC_ESCAPE>/[7m Exit /-
                                            060
060
0606
                                                                                       <TTY$C_ESCAPE>/[m/ -
<TTY$C_ESCAPE>/8/<TTY$C_CR>
                                 6D
0D
                                                    1011
                                0000061E
                                             0609
                                                                                       40-<.-TTYSA_CTRLZ_DEC>
                                                          TTYSA_CTRLY_DEC:
                                0A 0D
72 65
6D 5B
0D 38
              37 5B 1B 20 74 70
6E 49 20 6D
                                                                    . ASCIC
                                                                             <13><10><TTY$C_ESCAPE>/7/<TTY$C_ESCAPE>/[7m Interrupt /-
                                                                                       <TTY$C_ESCAPE>/[m/ -
<TTY$C_ESCAPE>/8/<13><10>
                                                    1015
                                             061
                                 00000646
                                                                                       40-<.-TTYSA_CTRLY_DEC>
                                                          TTYSA_CTRLC_DEC:
                                             0646
                                                    1018
                                             0646
0657
0657
                                    00
63
58
38
                             1B
6C
                                0A
65
61 43 20 6C 37 5B 1B
                                                                            <13><10><TTY$C_ESCAPE>/7/<TTY$C_ESCAPE>/[7m Cancel /-
                                                                    .ASCIC
                          20
                                                    1020
1021
                                                                                       <TTY$C_ESCAPE>/[m/ -
<TTY$C_ESCAPE>/8/<13><10>
                                QO
                                             0646
                                 3990000
                                             0651
                                                                                       40-<.-TTYSA_CTRLC_DEC>
                                                          TTYSA_CTRLO_DEC:
                                             066E
          6D 37 5B 1B
20 66 66 6F
                                             066E
                         37
75 4F 20
                                                                    .ASCIC
                                                                             <13><10><TTY$C_ESCAPE>/7/<TTY$C_ESCAPE>/[7m Output off /-
                                    58
38
                                             0683
                                                    1025
1026
                                                                                       <TTYSC ESCAPE>/[m/ -
                                OD
                             OA
                                             0686
                                                                                       <TTY$C_ESCAPE>/8/<13><10>
                                             066E
                                 00000696
                                             0684
                                                                                       40-<.-TTY$A_CTRLO_DEC>
                                                    1028
1029
                                             0696
                                                          TTYSA_OUTON_DEC:
                                    18
74
58
38
                                37
70 74 75 4F 20 6D
                         SB
6E
                                             0696
                                                                            <TTY$C_ESCAPE>/7/<TTY$C_ESCAPE>/[7m Output on /-
                                                                    . ASCIC
                      20
                             6F
                                             06A
                                6D
0D
                                        18
                                             06A
                                                    1030
1031
                                                                                       <TTY$C_ESCAPE>/[m/ -
                                             06AB
                                                                                       <TTY$C_ESCAPE>/8/<TTY$C_CR>
                                             0696
                                000006BE
                                             06AE
                                                                             .BLKB
                                                                                       40-<.-TTY$A_OUTON_DEC>
                                             06BE
                                             06BE
                                                            SEQUENCES FOR TERMINALS THAT SUPPORT REGIS
                                             06BE
                                             06BE
                                                            EXIT REGIS THEN PRINT DEC CRT CODES
                                             06BE
                                             06BE
                                                          TTYSA_CTRLY_REG:
                                             068E
06C1
06CD
                                                                    .ASCIC <TTYSC_ESCAPE>/\/-
74 6E 49 20 6D 37 5B 20 74
                                        0D
65
                         1B
70
                                                    1040
                                                                                       <13><10><TTYSC_ESCAPE>/7/<TTYSC_ESCAPE>/[7m Interrupt /-
                                             06D4
06D7
                                                    1041
1042
                                                                                       <TTYSC ESCAPE>/[m/ -
                                 OD
                             OA
                                                                                       <TTY$C_ESCAPE>/8/<13><10>
                                             06BE
                                 000006E6
                                             06DE
                                                                                       40-<.-TTYSA_CTRLY_REG>
                                                                              .BLKB
                                            06E6
06E6
06F
06F
                                                    1044
                                                          TTYSA_CTRLC_REG:
                                    18
0A
65
58
38
                                                                                      ESCAPE>/\/-
                                                                    . ASCIC
                                                                             <TTYSC
                             37
                                18
                                        0D
63
                                                    1046
6E 61 43 20 6D 37 5B 1B
                                                                                       <13><10><TTY$C_ESCAPE>/7/<TTY$C_ESCAPE>/[7m Cancel /-
                                                                                       <TTYSC_ESCAPE>/[m/ -
                                                    1047
                                                    1048
                                OD
                                                                                       <TTY$C_ESCAPE>/8/<13><10>
                                 0000070E
                                                                              .BLKB
                                                                                       40-<.-TTYSA_CTRLC_REG>
                                                    1050
                                                          TTYSA_DEOL::
20 20 20 20 20 20 20 20 20 20 00
                                        00
                                                                             .ASCIC
                                                                                       <TTYSC_CR>/
```

```
- Terminal driver data base module SPECIAL STRINGS
TTYDRVDAT
                                                                                                  16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2
        20 20 20 20 20 20 20 20 20
                                                          1052
                                                                                                 <TTYSC_CR>
                                                          1053 TTYSA_ANSI_UPCEL::
1054 .ASCIC <TTYSC_CR><TTYSC_ESCAPE>/EA/<TTYSC_ESCAPE>/EK/
                48 58 18 41 58 18 00 00'
                                                          1055 TTYSA_ANSI_DEOL::
                            48 58 18 0D 00'
                                                                                       .ASCIC <TTYSC_CR><TTYSC_ESCAPE>/[K/
                                                          1057 TTYSA_ANSIBACKUP::
1058 .ASCIC <TTYSC_ESCAPE>/[000D/
                    44 30 30 30 5B 1B 00'
                                                          1059 TTYSA_ANSICEL::
                                4B 5B 1B 00°
                                                                                      .ASCIC <TTY$C_ESCAPE>/[K/
                                                                   VTAB AND FORM
                            OA OA OA OA O4
                                                                TTYSA_VTAB::
TTYSA_MECHFORM::
TTYSA_FORM::
TTYSA_LONGFORM::
                                                                                                 BYTE.
                                                                                                           4.TTYSC_LF,TTYSC_LF,TTYSC_LF
                                                          1065
1066
1067
1068
1069
1070
1071
1073
1074
                        OA OA OA OA OD OS
OC OA OA OA OA OS
                                                                                                            5,TTY$C_CR,TTY$C_LF,TTY$C_LF,TTY$C_LF,TTY$C_LF
5,TTY$C_LF,TTY$C_LF,TTY$C_LF,TTY$C_FF
                                                                   MAXIMUM POSSIBLE ARSOLUTE SYSTEM TIME. USED TO KEEP EXESTIMEOUT FROM TIMING OUT READS WITH ZERO SECOND TIMEOUT.
                                    7FFFFFF
                                                                 TTYSA_MAXTIME:: .LONG ^X7FFFFFFF
```

```
- Terminal driver data base module TERMINAL CLASS DRIVER PROLOGUE TABLE
                                                         16-SEP-1984 02:16:16
7-SEP-1984 17:56:59
                                                                                        VAX/VMS Macro V04-00
[TTDRVR.SRC]TTYDRVDAT.MAR; 2
                                            TERMINAL CLASS DRIVER PROLOGUE TABLE $$$105_PROLOGUE
1076
1077
                                  .SBTTL
.PSECT
               1078
               1079
               1080
1081
1083
1083
1084
1086
1087
1088
                         CLASS DRIVER DPT
                                                                                 DRIVER START
DRIVER PROLOGUE TABLE
                      TTSDPT::
                                 DPTAB
                                            END=TT_END,-
FLAGS=DPT$M_NOUNLOAD,-
                                                                                 END OF CLASS DRIVER
                                                                                  UNLOAD NOT ALLOWED
                                            UCBSIZE=UCBSC_TL_LENGTH,
                                                                                  : SIZE OF UCB
                                                                                  ADAPTER TYPE
                                             ADAPTER=NULL .=
               1089
1090
1091
1093
1094
1095
1097
1098
1099
1100
1101
1103
                                                                                  NAME OF DRIVER
                                             NAME=TTDRIVER_-
                                             VECTOR=CLASS_VECTOR
                                                                                 CLASS VECTOR TABLE
                                DPT_STORE INIT
DPT_STORE UCB,UCB$B_FIPL,B,8
DPT_STORE UCB,UCB$L_DEVCHAR,L,<-:
DEV$M_REC!-
                                                                                 FORK IPL
                                                                                 CHARACTERISTICS
                                                        DEVSM_IDV!-
                                                        DEVSM_ODV!-
                                                        DEVSM_TRM!-
                                                        DEVSM CCL>
                                 DPT_STORE UCB,UCB$L_DEVCHAR2,L, <-; DEVICE CHARACTERISTICS
                                                        DEVSM NNM>
                                                                                 PREFIX WITH 'NODES'
                                1104
1105
               1106
               1108
               1109
               1110
               1111
               1113
               1114
                                 DPT_STORE REINIT

DPT_STORE CRB,CRB$L_INTD+VEC$L_INITIAL,D,VT$INITIAL; CONTROLLER INIT

DPT_STORE CRB,CRB$L_INTD+VEC$L_UNITINIT,D,VT$INITLINE; UNIT INIT

DPT_STORE END
               1116
               1117
               1118
               1119
               1120
```

VC

VC

```
.SBTTL DRIVER DISPATCH TABLE AND FUNCTION DECISION TABLE
   DRIVER DISPATCH TABLE
                                                             DRIVER DISPATCH TABLE
START 10 OPERATION
UNEXPECTED INTERRUPT
FUNCTION DECISION TABLE
           DDTAB
                        TT -
TTÝSSTARTIO,-
                       FUNCTION, -
TTYSCANCEL10, -
                                                            CANCEL I/O
REGISTER DUMP ROUTINE
SIZE OF DIAGNOSTIC BUFFER
SIZE OF ERROR LOG BUFFER
Unit initialization routine
                       TTYSWRTSTARTIO
                                                             Alternate START 1/0
  FUNCTION DECISION TABLE FOR ALL TERMINALS
FUNCTION:
          FUNCTAB .- <READLBLK.- WRITELBLK.-
                                                          : LEGAL FUNCTIONS
                       READVBLK,-
                       WRITEVBLK .-
                       READPBLK .-
                       WRITEPBLK .-
                       READPROMPT,-
                       TTYREADALL .-
                       TTYREADPALL .-
                       SETMODE, -
                       SETCHAR .-
                       SENSEMODE .-
                       SENSECHAR, -
           FUNCTAB
                      READLBLK .-
                                                          : BUFFERED I/O FUNCTIONS
                       WRITELBLK .-
                       READVBLK .-
                       WRITEVBLK-
                       READPBLK, -
                       READPROMPT ,-
                       TTYREADALL,-
                        TTYREADPALL .-
                       WRITEPBLK .-
           FUNCTAB TTYSFDTREAD, <READLBLK, READVBLK, READPBLK, READPROMPT, -
TTYREADALL, TTYREADPALL>
FUNCTAB TTYSFDTWRITE, <WRITELBLK, WRITEVBLK, WRITEPBLK>
            FUNCTAB TTYSFDTSETM, <SETMODE>
           FUNCTAB TTYSFDTSETC, <SETCHAR>
FUNCTAB TTYSFDTSENSEM, <SENSEMODE>
           FUNCTAB TTYSFDTSENSEC, <SENSECHAR>
```

```
- Terminal driver data base module 16-SEP-1984 02:16:16
DRIVER DISPATCH TABLE AND FUNCTION DECIS 7-SEP-1984 17:56:59
                                                                                                              VAX/VMS Macro V04-00
[TTDRVR.SRC]TTYDRVDAT.MAR;2
                          1177
1178
1179
                                               THIS TABLE IS USED FOR COMMUNICATION WITH THE TERMINAL CLASS DRIVER. IT INITIALLY CONTAINS RELATIVE OFFSETS TO VARIOUS ROUTINES AND DATA STRUCTURES NEEDED BY TERMINAL PORT DRIVERS. AT DRIVER LOAD THE RELATIVE OFFSETS ARE RELOCATED TO ACTUAL VIRTUAL ADDRESSES. THE LIST IS TERMINATED BY A O LONGWORD TO SIGNAL THE RELOCATION ROUTINE WHERE THE LIST TERMINATES.
                          1182
                          1184
1185
1186
1187
                                  CLASS_VECTOR:
GET NEXT STRING
PUT NEXT STRING
                                               . LONG
                                                            TTYSGETNEXTCHAR -
                                                                                                   TISDPT
                                               . LONG
                                                            TTYSPUTNEXTCHAR -
                                                                                                   TISDPT
                                                                                                                   ROUTINE TO INIT UCB
ROUTINE TO HANDLE MODEM TRANSITION
                                               . LONG
                                                            TTYSSETUP UCB -
PORT_TRANSITION -
                                                                                                   TTSDPT
                                               . LONG
                                                                                                   TTSDPT
                          1190
1191
1192
1193
                                                            TTSDDT -
                                                                                                   TISBER
                                                . LONG
                                                                                                                   CLASS DRIVER DDT
                                                .LONG
                                                            TTYSREADERROR -
                                                                                                   TTSDPY
                                                            TTYSCLASS DISCONNECT -
                                                                                                                   CLASS DISCONNECT ROUTINE CLASS FORK ROUTINE
                                               .LONG
                                                                                                   TISDPT
                                                . LONG
                                                                                                   TISOPT
                0803
0807
0807
0807
0807
                                                .LONG
                                                            TTYSPOWERACTION -
                                                                                                   TT$DPT
                                                                                                                   CLASS POWERFAIL ACTION ROUTINE
                          1195
1196
1197
                                     A pointer to tables is included here so that changes to the
                                     tables can be made from code external to the driver.
                          1198
0000080B'
                0807
                                               .LONG TTYSA_TABLES -
                                                                                                   TTSDPT : MISCELLANEOUS TABLES
                          1201230456789012314567890123
12024567890112314567890123
12222333333
122223333333
                B080
                080B
                                               THIS MARKS THE END OF THE CLASS DRIVER VECTORS.
THE VECTORS AFTER THIS ARE USED FOR OTHER PURPOSES WITHIN THE
                080B
080B
                                               DRIVER. THEY ARE INCLUDED HERE TO TAKE ADVANTAGE OF THE AUTOMATIC RELOCATION THAT TAKES PLACE AT BOOT TIME. BY REPLACING ANY OF THESE FOLLOWING JECTORS, THE TABLES THAT THEY POINT TO CAN BE "SWITCHED" WITHOUT MODIFIATION OF THE DRIVER.
                080B
                080B
                080B
                080B
                                 TTYSA_TABLES:
                080B
                080B
00000827"
                080B
                                                LONG
                                                            INTECHO -
                                                                                                   TTSDPT : INTERRUPT ECHOS
                080F
                                  TTYSA_EXITECHO::
00000847*
                080F
                                                . LONG
                                                            EXITECHO -
                                                                                                   TTSDPT : EXIT ECHOS
                                  TTYSA_CTRLOECHO:
                 0813
0000084F°
                                                . LONG
                                                            CTRLOECHO -
                                                                                                   TTSDPT : CTRLO ECHOS
                                  TTYSA_INPFALL::
00000863
                0817
                                                LONG
                                                            NOFALL -
                                                                                                   TTSDPT ; INPUT FALLBACK TABLE
                081B
                                  TTYSA FALLTAB::
000002DA*
                081B
                                                . LONG
                                                           FALLTAB -
                                                                                                   TTSDPT ; FALLBACK TRANSLATION
                                  TTYSA_EXPAN::
                                               . LONG
00000000
                                                            EXPAN -
                                                                                                   TTSDPT ; EXPANSION LIST FOR BREAK CHARACTEE
                                  TTYSA_EXPTAB::
000000000
                                               .LONG
                                                                                                   TTSDPT ; FALLBACK BREAK CHARACTER LIST
                                                            EXPTAB -
                                               HERE ARE THE DEFAULT TABLES PROVIDED BY ITDRIVER.
                                  INTECHO:
00000576
00000596
0000068E
000006E6
0000061E
                                                           TTYSA_CTRLY -
TTYSA_CTRLY -
TTYSA_CTRLY REG -
TTYSA_CTRLC_REG -
TTYSA_CTRLY_DEC -
TTYSA_CTRLC_DEC -
TTYSA_CTRLY_REG -
                                               .LONG
                                                                                                   TTSDPT
                                               . LONG
                                                                                                   TT$DPT
                                                                                                                       (ASSUMES DECCRT)
                                               . LONG
                                                                                                   TTSDPT
                                                                                                                       (ASSUMES DECCRT)
                                               .LONG
                                                                                                   TTSDPT
                                               . LONG
                                                                                                   TTSDPT
```

TTSDPT

TTSDPT

6

. LONG

. LONG

```
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page DRIVER DISPATCH TABLE AND FUNCTION DECIS 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTVDRVDAT.MAR;2
                            1234
1235 EXITECHO:
1236 LONG
1237
1238 CTRLOECHO:
1239
1240 LONG
000006E6"
                                                                 TTYSA_CTRLC_REG -
                                                                                                            TTSDPT : 7
00000556°
                                                                 TTYSA_CTRLZ_DEC -
                                                                                                            TTSDPT
000005B6'
0000066E'
000005D6'
                                                   LONG
LONG
LONG
                                                                                                            TTSDPT
TTSDPT
TTSDPT
TTSDPT
                                                                 TTYSA_CTRLO -
TTYSA_CTRLO_DEC -
TTYSA_OUTON -
TTYSA_OUTON_DEC -
                                                   .LONG
00000000
                                                                 0
                                                                                                                          ; END OF LIST
                                    NOFALL:
00000000
                                                   .LONG
                                                                 0
```

K 15
- Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 Page 36
DRIVER DISPATCH TABLE AND FUNCTION DECIS 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2 (26)

```
.SBTTL LOGICAL UCB INIT ROUTINES
                                                                    THESE ROUTINES SERVE AS THE CONTROLLER AND UNIT INIT ROUTINES WHEN THE TEMPLATE UCB IS CONNECTED VIA SYSGEN. THEY SAVE THE ADDRESS OF THE TEMPLATE DDB AND UCB FOR CLONEING FUTURE LOGICAL TERMINAL UCBS
                                                       VTSINITIAL:
TSTL
                                                                                                                                      : CONTROLLER INIT
; SKIP IF ALREADY SET UP
        00000887°EF
07
0887°EF 56
                                                                                 VTSDDB
108
                                                                     BNEQ
00000887'EF
                                                                     MOVL
                                                                                  R6, VT$DDB
                                                                                                                                      : SAVE ADDRESS OF DDB
                                                       105:
                                                                     RSB
                                                        VT$INITLINE:
                                                                                                                                      : UNIT INIT
: SKIP IF ALREADY SET UP
       0000088B'EF
07
088B'EF 55
                                                                                 VT$UCB
10$
R5,VT$UCB
                              D5
12
D0
05
                                                                     TSTL
                                                                     BNEQ
0000088B'EF
                                                                     MOVL
                                                                                                                                      ; SAVE TEMPLATE UCB ADDRESS
                                                       105:
                                                                     RSB
                                                       VT$DD8::
                     00000000
                                                                                 0
                                                                     .LONG
                                                        VT$UCB::
                     00000000
                                                                     . LONG
                                                                                 0
                                                                     .END
```

TYDRVDAT Symbol table	- Terminal	driver d	ta base module	16-SEP-1984	02:16:16	VAX/VMS [TTDRVR	Macro SRCJTT	VO4-00 YDRVDAT.MAR; 2	Page	(20
is iss isss	= 00000100 = 00000020 = 00000146 = 00000002 = 00000001	P 05	MASKH MASKL NOFALL NUMO9		= 0000 = 0800 = 0000 = 0000 = 0000 = 0000 = 0000 = 0000	0000				
555	= 00000146	R 05	NOFALL		0000	0863 R	02			
SOP	= 00000002		NUMO9		= 0000	0004				
LPHA_LOWER	= 00000002		ORB\$B_FLAGS ORB\$L_OWNER ORB\$M_PROT_16 ORB\$W_PROT PLUS_MINUS PORT_TRANSITION		= 0000	0008				
T\$_NULL	******	E 115	ORB\$M_PROT_16		= 0000	0001				
HAR HAR ALL LASS_VECTOR RB\$L_INTD TRLOECHO C\$_TERM DB\$L_DDT EV\$M_AVL EV\$M_CCL EV\$M_IDV EV\$M_NNM EV\$M_DDV EV\$M_REC EV\$M_TRM PT\$C_LENGTH PT\$C_VERSION PT\$INITAB PT\$M_NOUNLOAD	= 00000100 = 00000020 000007E3   = 00000024 0000084F		ORB\$W_PROT		= 0000	0018				
ASS VECTOR	= 00000020 000007F3 I	R 02	PORT TRANSITION		= 0000	8000	x 02			
RB\$L_INTD	= 00000024	. 02	PRINTABLE		= 0000	0010 0001 00003 00008 00005 00009 00006 00006 00007 00007 00007 00007 00007 00007 00000 RG 00000 RG 00000 RG 00000 RG 00000 RG 00000 RG	N 02			
TRLOECHO	0000084F I	R x 02	PRINTABLE SLEN TTSC_BAUD_110 TTSC_BAUD_1200 TTSC_BAUD_150 TTSC_BAUD_1800 TTSC_BAUD_19200 TTSC_BAUD_2400 TTSC_BAUD_300 TTSC_BAUD_3600 TTSC_BAUD_4800 TTSC_BAUD_4800 TTSC_BAUD_600 TTSC_BAUD_9600 TTSC_BAUD_9600 TTSC_BAUD_9600 TTSC_BAUD_9600		= 0000	0001				
DREI DDT	= 00000000	X 05	TTSC BAUD 110		= 0000	0003				
EVSM_AVL	******	X 05	TTSC-BAUD-150		= 0000	0005				
EV\$M_CCL	******	X 05 X 05 X 05 X 05 X 05 X 05 X 05	TT\$C_BAUD_1800		= 0000	0009				
EVSM_IDV	******	X 05	TT\$C_BAUD_19200		= 0000	0010				
EV\$M ODV	******	x 05	TT\$C BAUD 2400		= 0000	0006				
EV\$M_REC	******	X 05	TT\$C_BAUD_3600		= 0000	ÖÖÖC				
EVSM_TRM	- 0000070	X 05	TTSC_BAUD_4800		= 0000	000D				
PT\$C_VERSION	= 00000038 = 00000004 00000038 = 00000004 000000082 000000000000000000000		TTSC BAUD 9600		= 0000	0007				
TSINITAB	00000038	R 05	TTSDDT		0000	0753 RG	02			
T\$M_NOUNLOAD	= 00000004		TT\$DPT		0000	0000 RG	02 05			
PTSREINITAB PTSTAB	0000000	R 05	TTS UNKNOWN		= 0000	0000 0034 BG	02			
YNSC_CRB	= 00000005	. 03	TTS UNKNOWN TTYSAB 600 TTYSAB 9600		0000	0000 RG	02 02 02 02 02 02 02			
YNSC DDR	= 00000005 = 00000006 = 0000001E = 00000010		TTYSAB 9600 TTYSA BBITESC TTYSA ANSIBACKU TTYSA ANSICEL TTYSA ANSI DEOL TTYSA BACKSPACE TTYSA CCLIST TTYSA CTRLC TTYSA CTRLC TTYSA CTRLC TTYSA CTRLC DEC TTYSA CTRLC PEG TTYSA CTRLO DEC		0000	029A RG	02			
YNSC_DPT YNSC_ORB YNSC_UCB XITECHO	= 0000001E		TTYSA_ANSIBACKU	P	0000	0732 RG	02			
YN\$C UCB	= 00000010		TTYSA ANSI DEOL		0000	0720 RG	02			
XITECHO	00000847	R 02	TTYSA_ANSI_UPCE	L	0000	0725 RG	ÖŽ			
XPAN XPTAB	00000000	R 02 R 04 R 03 R 02	TTY\$A_BACKSPACE		0000	054B RG	02			
ALITAR	0000000	03	TTVSA CTRIC		0000	0596 R	02			
ALLTAB UNCTAB_LEN	= 00000058	. 02	TTYSA_CTRLC_DEC		0000	0646 R	02			
JNCTION	0000078B	R 02 R 02 RG 02	TTY\$A_CTRLC_REG		0000	06E6 R	02			
NTECHO NTERRUPT_KEY	00000827 1	8 02	TTYSA CTRLO		0000	0280 R	02			
NTERRUPT KEY LEN	= 00000005	G	TTYSA CTRLO DEC		0000	066E R	ÖŽ			
S READLBLK	= 00000021		TTYSA_CTRLR		0000	0554 RG	02			
DS_READPBLK	= 00000000 000000000 000002DA 000002BB 0000078B 00000827 00000246 = 00000005 = 000000021 = 00000037 = 00000031 = 0000001B		TTYSA_CTRLU		0000	0552 RG	02			
SREADPROMPT SREADVBLK	= 00000031		TTYSA CTRLY DEC		0000	061E R	02			
DS SENSECHAR			TTY\$A_CTRLY_REG		0000	OGBE R	02			
SENSEMODE	= 00000027 = 0000001A = 00000023 = 0000003A		TTYSA_CTRLZ		0000	0556 RG	02			
SSETCHAR SSETMODE	= 00000012		TTYSA DEL CETTAR		0000	0543 RG	05			
OS TTYREADALL	= 0000003A		TTY\$A_DEOL		ŏŏŏŏ	OFOE RG	ÖŽ			
D\$_TTYREADPALL	= 0000003B		TTY\$A_ESCAPE_		0000	0266 RG	02			
OS_VIRTUAL OS_WRITELBLK	= 0000003F = 00000020		TTYSA ESCINIT		0000	028A RG	02			
OS WRITEPBLK	= 00000020 = 0000000B = 00000030		TTYSA EXITECHO		0000	080F RG	ŎŽ			
OS WRITEPBLK OS WRITEVBLK	= 00000030		TTY\$A_EXPAN		ŎŎŎŎ	OBIE RG	02			
OC\$MNTVER	******	X 05	TTY\$A_CTRLOECHO TTY\$A_CTRLO TTY\$A_CTRLU TTY\$A_CTRLY TTY\$A_CTRLY TTY\$A_CTRLY TTY\$A_CTRLY_DEC TTY\$A_CTRLZ_DEC TTY\$A_CTRLZ_DEC TTY\$A_DELCRTTAB TTY\$A_ESCAPE TTY\$A_ESCAPE TTY\$A_ESCINIT TTY\$A_ESCINIT TTY\$A_EXITECHO TTY\$A_EXITECHO TTY\$A_EXITECHO TTY\$A_EXPTAB TTY\$A_EXPTAB TTY\$A_FALLTAB		0000	0725 RG 0725 RG 07248 RG 005466 RR 005946 RG 005813 RG 005576 RG 005706 RG 005748 RG 005748 RG 005748 RG 005818 RG 00818 RG 00818 RG	00000000000000000000000000000000000000			
DCSRETURN	*******	v 05	I I I DA_ I ALL I AB		0000	טא פוסט	Ú.E			

T

TTYDRVDAT Symbol table			base module	16-SEP-1984 7-SEP-1984	02:16:16 VAX/VI 17:56:59 ETTDR	MS Macro V04-0	O Page	38
	0000024B 00000743 0000080B 00000749 0000074F 0000074F 00000506 0000054F 0000053A 0000053A 0000053A 0000053A 0000053A 0000073D 0000073D 0000073D 00000073D 0000000000		TTYSK ET CTRLE TTYSK ET DELE TTYSK ET BCA TTYSK ET MOVE TTYSK ET MOVE TTYSK ET RECA TTYSK ET TERM TTYSK ET TOGG TT	TE_WORD PED CHAR BOL ING LL ING LL INATE EL EN ON AR	= 00000001 = 00000003 = 00000004 = 000000008 = 000000008 = 000000000000000000000000000000000000	X 02 X 02 X 02 X 02 X 02 X 02 X 03	AT.MAR; 2	(26
TTYSC_SS2 TTYSC_SS3 TTYSC_TAB TTYSC_TAB TTYSFDTREAD TTYSFDTSENSEC TTYSFDTSENSEM TTYSFDTSETC TTYSFDTSETM TTYSFDTSETM TTYSFDTWRITE TTYSGL_DEFCHAR TTYSGL_DEFCHAR TTYSGL_DEFCHAR2 TTYSGL_OWNUIC TTYSGW_DEFBUF TTYSGW_DEFBUF TTYSK_EI_BACK_CHAR TTYSK_EI_BACK_CHAR TTYSK_EI_BACK_CHAR	= 0000007E = 0000008F = 00000009 ******* ****** ****** ****** ***** ****	X 02 X 02 X 02 X 02 X 02 X 02 X 05 X 05 X 05 X 05 X 05	VERIFY ARRAY VTSDDB VTSINITIAL VTSINITLINE VTSUCB XYCONTROL XYCTRL2 XYCTRL3 XYLOWER XYSPEC Y		00000877	RG 02 RG 02 R 02 RG 02		

TV

TTYDRVDAT - Terminal driver data base module 16-SEP-1984 02:16:16 VAX/VMS Macro V04-00 7-SEP-1984 17:56:59 [TTDRVR.SRC]TTYDRVDAT.MAR;2

## Psect synopsis!

PSECT name	Allocation	PSECT No.	Attributes				
ABS . SABSS S\$\$115_DRIVER \$\$\$115_TTDRVR_EXPTAB \$\$\$115_TTDRVR_EXPAN \$\$\$105_PROLOGUE	00000000 ( 0.) 00000000 ( 0.) 0000088F (2191.) 00000000 ( 96.) 00000000 ( 0.)	00 ( 0.) 01 ( 1.) 02 ( 2.) 03 ( 3.) 04 ( 4.) 05 ( 5.)	NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR NOPIC USR	CON ABS CON REL CON REL CON REL CON REL	LCL NOSHR NO LCL NOSHR LCL NOSHR LCL NOSHR LCL NOSHR LCL NOSHR	DEXE NORD EXE RD EXE RD EXE RD EXE RD EXE RD EXE RD	NOWRT NOVEC BYTE WRT NOVEC BYTE WRT NOVEC LONG WRT NOVEC BYTE WRT NOVEC BYTE WRT NOVEC BYTE WRT NOVEC BYTE

## Performance indicators

Phase	Page faults	CPU Time	<b>Elapsed Time</b>
Initialization Command processing	29	00:00:00.03	00:00:02.46
Pass 1 Symbol table sort	667	00:00:24.74	00:01:30.78
Pass 2 Symbol table output	223 26	00:00:05.31	00:00:20.77
Psect synopsis output Cross-reference output	3	00:00:00.02	00:00:00.02
Assembler run totals	1068	00:00:32.58	00:02:06.99

The working set limit was 2100 pages.
207939 bytes (407 pages) of virtual memory were used to buffer the intermediate code.
There were 100 pages of symbol table space allocated to hold 1847 non-local and 7 local symbols.
1276 source lines were read in Pass 1, producing 28 object records in Pass 2.
41 pages of virtual memory were used to define 38 macros.

## ! Macro library statistics !

Macro Library name

\$255\$DUA28:[SYS.09J]LIB.MLB:1

\$255\$DUA28:[SYSLIB]STARLET.MLB:2

TOTALS (all Libraries)

Macros defined

22
6
28

2031 GETS were required to define 28 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LISS:TTYDRVDAT/OBJ=OBJS:TTYDRVDAT MSRCS:TTYDRVDAT/UPDATE=(ENHS:TTYDRVDAT)+EXECMLS/LIB

0403 AH-BT13A-SE VAX/VMS V4.0

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